



About BOSS & Frequently Asked Questions

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1. What is Bio-Safe One Septic Solution (BOSS)?

Backed by over fifty three years of research and development, B.O.S.S is a natural, safe, effective, money-saving preventative treatment which cleans, eliminates odors and maintains septic systems. B.O.S.S is a ready-to-use enzyme-fortified multiple spore blend of highly specific bacteria (and other natural ingredients) designed to provide continuous digestion and liquefaction of organic wastes found in both aerobic (oxygen) and anaerobic (non-oxygen) environments. By it's accelerated break-down process, B.O.S.S assures that wastewater gets filtered through the soil without backing up into your tank or household plumbing, allowing uninterrupted air and water flow throughout your entire system from your pipes to your absorption area.



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2. How does Bio-Safe One Septic Solution work?

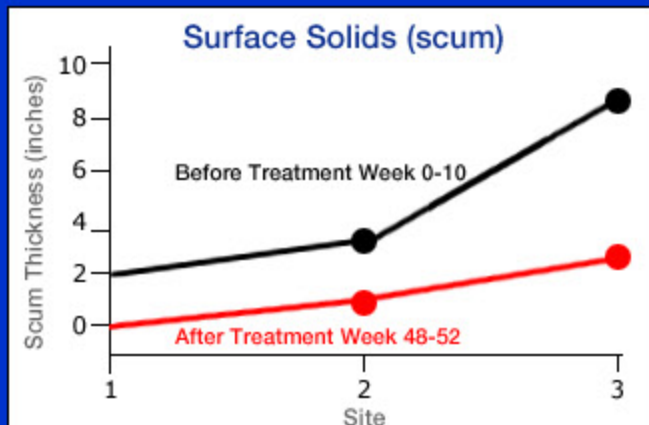
When B.O.S.S is flushed down your toilet into your septic tank, a large volume and variety of bacteria are activated immediately upon contact with sludge and scum. Spore colonies in B.O.S.S double every 20 minutes and replenish bacteria in the tank that have been destroyed by everyday use of soaps and chemicals. Through it's superior enzymatic activity against specific substrates such as: lipase (grease), protease (protein and hair), cellulose (mold, vegetables and paper) and amylase (starch), B.O.S.S digests and dissolves organic matter, breaks down their molecular structure and recycles wastes into minerals, water and oxygen.

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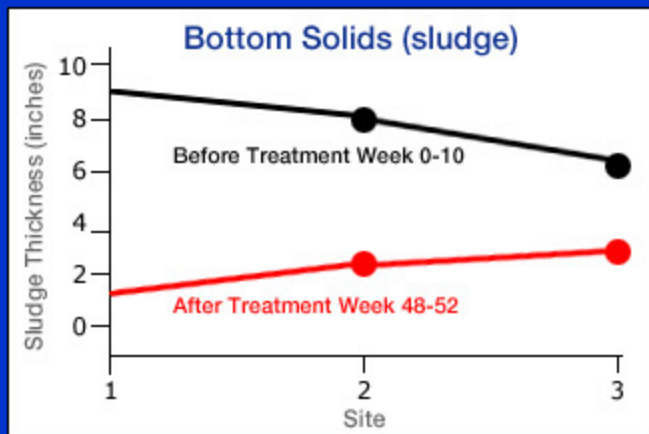
3. How do I know if Bio-Safe One Septic Solution works?

Trouble signs such as gurgling in pipes, surface water, slow drainage and odors will be reversed. Blockage caused by other factors such as an obstruction, damaged lines or a failed drain field, should be checked by a licensed professional.

In a one year study on 3 separate sites, B.O.S.S reduces the depth of the "scum" and "sludge" layers by about 80%.



This shows how the use of B.O.S.S reduces the depth of the light fats, soaps and oils, or "scum" layer by 4-2/3 inches, or 78%.



This graph shows how B.O.S.S reduces the heavy bottom solids or "sludge" layer from an average of 8 inches to 2-2/3 inches, giving 6 more inches or capacity to the tank. In the tanks treated with B.O.S.S, sludge is reduced by 77%, compared to 14% for the untreated control sites.

Photographs of the field test sites provide visual support of the surface scum thickness measurements data.



Before Bio-Safe One



After Bio-Safe One

The "before" picture shows that there is a thick layer of dirty scum. You can see that the water level is almost to the top of the stained sides of the tank.

The "after" picture show how clean the water is. Since the sewage has been consumed, you can see the reflection of the photographer on the surface.

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4. Why should I use Bio-Safe Septic Solution (BOSS)?

When used as directed, B.O.S.S cleans and clears clogs throughout your entire system and eliminates the need for frequent pump-outs. By digesting up to 100 pounds of sludge and scum in only a 24-hour period, B.O.S.S reduces the depth of these layers and increases the capacity of your tank. Poorly maintained systems have less than half their capacity because the depth of the scum and sludge layers take up more than 50% of the tank's volume. Contrary to popular belief, the bacteria that are already in your tank and "yeast" that you may add to it, do Not produce the specific enzymes that dissolve difficult wastes and do Not have the neutralizing agents found in B.O.S.S that combat detergents.

It takes years to cultivate the specific types and volume of bacterial strands developed by our laboratories, especially the anaerobic cultures necessary to combat difficult wastes such as grease and paper. B.O.S.S has billions of bacteria per gram, versus other brands that have only millions per gram.

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5. Is Bio-Safe One Septic Solution safe?

The bacterial cultures introduced by B.O.S.S are laboratory tested and guaranteed 100% gram positive and non-pathogenic (non-hazardous). Unlike chemicals, B.O.S.S is the most effective means of dissolving wastes and is environmentally friendly and safe. It is harmless to humans, plants and animals as well as to your pipes, lines and water supply. A similar product was successfully used to clear the Alaskan Exxon Valdez oil spill in 1989.

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6. How does Bio-Safe One Septic Solution (BOSS) protect my soil?

The microorganisms, enzymes and neutralizing agents in B.O.S.S dissolve accumulated solids, soaps, greases and oils that cause your drain pipes, drain field and soil to clog. B.O.S.S rapidly digests organic wastes in the tank and stops wastewater from backing up into your tank and home along with foul odors.

B.O.S.S reduces the volume of sewage in the tank and increases the "clear zone" or the water layer that flows into the leach field. This process lowers the water pressure, which slows the rate of water flow into your tank and allows more time for digestion. If waste is not digested rapidly enough, un-dissolved solids migrate into your soil and harden it.

B.O.S.S improves drainage and makes the operation of your entire system run smoother. B.O.S.S reverses years of organic build up and soil contamination in the drain field. Most importantly, it prevents you from ever having to have your drain field unclogged. Should this occur, it would be extremely costly to repair and detrimental to your health and safety.

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7. How do I know if my system is not working properly?

It is not easy to diagnose the cause of back-ups. Some good indications of back-up are: slowly draining sinks and toilets, gurgling and backup sounds in the plumbing, sewage odors in the home, tests showing the presence of bacteria in well water and baffles or tees that are not intact or positioned properly.

Two signs of failed soil are:

- If grass is observed greener or more lush over the drain field (sewage water is puddled underneath).
- When a licensed pumper notices water backing up into your tank.

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8. When do I need to pump my tank?

Have your tank checked once a year by a licensed pumper for safe levels of sludge and scum. Have the pumper make sure that your baffles are intact so that water does not back up into your home (see diagram 1.). B.O.S.S will reduce the need for frequent pump-outs. If a system is maintained from the beginning, the probability that you would never see a pump-out is realistic! Depending on your family's habits, tanks should be pumped for un-dissolved solids that cannot be broken down such as plastics and metals.

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9. What should I know about odors and my system?

Unreated sewage has a build up of odorous fatty acids. The presence of an odor means that there is a problem due to incomplete digestion and insufficient amounts of anaerobic bacteria in your tank. The anaerobic bacteria introduced into your system by B.O.S.S, reverse odors by breaking down grimy solids and fats to carbon dioxide, water and minerals.

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10. How can Bio-Safe One Septic Solution (BOSS) help me save money and avoid future problems?

Most cesspools and septic systems fail due to problems in the drain field caused by lack of proper maintenance. With regular monthly use of B.O.S.S, your entire system from tank to leach lines and drain field will remain clean and clear of organic debris and operate at it's optimum level. BOSS reduces frequent pump-outs, improves drain field percolation, and extends the life of your system, saving you thousands of dollars in upkeep and repairs.

It is important to know that clogs in your pipes and lines may not be visible and odors may go unnoticed. Years of neglecting to maintain your system will eventually cause a faulty system and contaminate your soil. This can have a serious affect on your health, livelihood and finances. It can cost anywhere from \$5,000 to over \$20,000 to build a new system, whereas B.O.S.S preventative maintenance costs only a few dollars per month.

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We at Bio-Safe One have been in the forefront of research and development of Preventative Maintenance for Septic Systems for over 53 years and have developed the most technologically advanced treatment to combat your septic needs. To find out more about our company, [click here](#).

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